

RECEIVED

APR 07



TEST CENTER 1500-20

1600

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/596,444B

DATE: 04/01/2003

TIME: 12:47:40

Input Set : E:\Sequence Listing.txt

Output Set: N:\CRF4\04012003\I596444B.raw

3 <110> APPLICANT: Huang, Wei  
 4 Hoekstra, Merl F  
 5 Lee, Sandra K  
 6 Cairns, Nicholas  
 7 Kauvar, Lawrence M  
 8 Sportsman, J Richard  
 10 <120> TITLE OF INVENTION: PHOSPHORYLATION ASSAYS  
 12 <130> FILE REFERENCE: LJL 354B  
 14 <140> CURRENT APPLICATION NUMBER: US 09/596,444B  
 15 <141> CURRENT FILING DATE: 2000-06-19  
 17 <160> NUMBER OF SEQ ID NOS: 48  
 19 <170> SOFTWARE: PatentIn version 3.1  
 21 <210> SEQ ID NO: 1  
 22 <211> LENGTH: 10  
 23 <212> TYPE: PRT  
 24 <213> ORGANISM: Artificial Sequence  
 26 <220> FEATURE:  
 27 <223> OTHER INFORMATION: Artificial sequence is synthesized  
 29 <220> FEATURE:  
 30 <221> NAME/KEY: MOD\_RES  
 31 <222> LOCATION: (5)..(5)  
 32 <223> OTHER INFORMATION: PHOSPHORYLATION  
 35 <220> FEATURE:  
 36 <221> NAME/KEY: MOD\_RES  
 37 <222> LOCATION: (10)..(10)  
 38 <223> OTHER INFORMATION: BIOTINYLATION  
 41 <400> SEQUENCE: 1  
 43 Gly Glu Glu Gly Tyr Met Pro Met Gly Lys  
 44 1 5 10  
 47 <210> SEQ ID NO: 2  
 48 <211> LENGTH: 17  
 49 <212> TYPE: PRT  
 50 <213> ORGANISM: Artificial Sequence  
 52 <220> FEATURE:  
 53 <223> OTHER INFORMATION: Artificial sequence is synthesized  
 55 <220> FEATURE:  
 56 <221> NAME/KEY: MOD\_RES  
 57 <222> LOCATION: (1)..(1)  
 58 <223> OTHER INFORMATION: BIOTINYLATION  
 61 <220> FEATURE:  
 62 <221> NAME/KEY: MOD\_RES  
 63 <222> LOCATION: (1)..(1)  
 64 <223> OTHER INFORMATION: AMIDATION

ENTERED

## RAW SEQUENCE LISTING

DATE: 04/01/2003

PATENT APPLICATION: US/09/596,444B

TIME: 12:47:40

Input Set : E:\Sequence Listing.txt

Output Set: N:\CRF4\04012003\I596444B.raw

```

67 <400> SEQUENCE: 2
69 Glu Gly Pro Trp Leu Glu Glu Glu Glu Ala Tyr Gly Trp Met Asp
70 1          5          10          15
73 Phe
77 <210> SEQ ID NO: 3
78 <211> LENGTH: 8
79 <212> TYPE: PRT
80 <213> ORGANISM: Artificial Sequence
82 <220> FEATURE:
83 <223> OTHER INFORMATION: Artificial sequence is synthesized
85 <400> SEQUENCE: 3
87 Asp Tyr Met Thr Met Gln Ile Gly
88 1          5
91 <210> SEQ ID NO: 4
92 <211> LENGTH: 11
93 <212> TYPE: PRT
94 <213> ORGANISM: Artificial Sequence
96 <220> FEATURE:
97 <223> OTHER INFORMATION: Artificial sequence is synthesized
99 <400> SEQUENCE: 4
101 Ser Arg Gly Asp Tyr Met Thr Met Gln Ile Gly
102 1          5          10
105 <210> SEQ ID NO: 5
106 <211> LENGTH: 11
107 <212> TYPE: PRT
108 <213> ORGANISM: Artificial Sequence
110 <220> FEATURE:
111 <223> OTHER INFORMATION: Artificial sequence is synthesized
113 <400> SEQUENCE: 5
115 Glu Lys Arg Pro Ser Gln Arg Ser Lys Tyr Leu
116 1          5          10
119 <210> SEQ ID NO: 6
120 <211> LENGTH: 10
121 <212> TYPE: PRT
122 <213> ORGANISM: Artificial Sequence
124 <220> FEATURE:
125 <223> OTHER INFORMATION: Artificial sequence is synthesized
127 <220> FEATURE:
128 <221> NAME/KEY: MOD_RES
129 <222> LOCATION: (5)..(5)
130 <223> OTHER INFORMATION: PHOSPHORYLATION
133 <400> SEQUENCE: 6
135 Glu Lys Arg Pro Ser Arg Ser Lys Tyr Leu
136 1          5          10
139 <210> SEQ ID NO: 7
140 <211> LENGTH: 10
141 <212> TYPE: PRT
142 <213> ORGANISM: Artificial Sequence
144 <220> FEATURE:

```

## RAW SEQUENCE LISTING

DATE: 04/01/2003

PATENT APPLICATION: US/09/596,444B

TIME: 12:47:40

Input Set : E:\Sequence Listing.txt

Output Set: N:\CRF4\04012003\I596444B.raw

```

145 <223> OTHER INFORMATION: Artificial sequence is synthesized
147 <220> FEATURE:
148 <221> NAME/KEY: MOD_RES
149 <222> LOCATION: (8)..(8)
150 <223> OTHER INFORMATION: PHOSPHORYLATION
153 <400> SEQUENCE: 7
155 Glu Lys Arg Pro Ser Gln Arg Ser Tyr Leu
156 1          5          10
159 <210> SEQ ID NO: 8
160 <211> LENGTH: 9
161 <212> TYPE: PRT
162 <213> ORGANISM: Artificial Sequence
164 <220> FEATURE:
165 <223> OTHER INFORMATION: Artificial sequence is synthesized
167 <220> FEATURE:
168 <221> NAME/KEY: MOD_RES
169 <222> LOCATION: (5)..(5)
170 <223> OTHER INFORMATION: PHOSPHORYLATION
173 <220> FEATURE:
174 <221> NAME/KEY: MOD_RES
175 <222> LOCATION: (7)..(7)
176 <223> OTHER INFORMATION: PHOSPHORYLATION
179 <400> SEQUENCE: 8
181 Glu Lys Arg Pro Ser Arg Ser Tyr Leu
182 1          5
185 <210> SEQ ID NO: 9
186 <211> LENGTH: 14
187 <212> TYPE: PRT
188 <213> ORGANISM: Artificial Sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: Artificial sequence is synthesized
193 <220> FEATURE:
194 <221> NAME/KEY: MOD_RES
195 <222> LOCATION: (11)..(11)
196 <223> OTHER INFORMATION: PHOSPHORYLATION
199 <400> SEQUENCE: 9
201 Lys Arg Arg Glu Ile Leu Ser Arg Arg Pro Ser Tyr Arg Lys
202 1          5          10
205 <210> SEQ ID NO: 10
206 <211> LENGTH: 11
207 <212> TYPE: PRT
208 <213> ORGANISM: Artificial Sequence
210 <220> FEATURE:
211 <223> OTHER INFORMATION: Artificial sequence is synthesized
213 <220> FEATURE:
214 <221> NAME/KEY: MOD_RES
215 <222> LOCATION: (7)..(7)
216 <223> OTHER INFORMATION: PHOSPHORYLATION
219 <400> SEQUENCE: 10

```

## RAW SEQUENCE LISTING

DATE: 04/01/2003

PATENT APPLICATION: US/09/596,444B

TIME: 12:47:40

Input Set : E:\Sequence Listing.txt

Output Set: N:\CRF4\04012003\I596444B.raw

```

221 Lys His Phe Pro Gln Phe Ser Tyr Ser Ala Ser
222 1          5          10
225 <210> SEQ ID NO: 11
226 <211> LENGTH: 11
227 <212> TYPE: PRT
228 <213> ORGANISM: Artificial Sequence
230 <220> FEATURE:
231 <223> OTHER INFORMATION: Artificial sequence is synthesized
233 <220> FEATURE:
234 <221> NAME/KEY: MOD_RES
235 <222> LOCATION: (1)..(1)
236 <223> OTHER INFORMATION: PHOSPHORYLATION
239 <400> SEQUENCE: 11
241 Ser Pro Glu Leu Glu Arg Leu Ile Ile Gln Cys
242 1          5          10
245 <210> SEQ ID NO: 12
246 <211> LENGTH: 11
247 <212> TYPE: PRT
248 <213> ORGANISM: Artificial Sequence
250 <220> FEATURE:
251 <223> OTHER INFORMATION: Artificial sequence is synthesized
253 <220> FEATURE:
254 <221> NAME/KEY: MOD_RES
255 <222> LOCATION: (9)..(9)
256 <223> OTHER INFORMATION: PHOSPHORYLATION
259 <220> FEATURE:
260 <221> NAME/KEY: MOD_RES
261 <222> LOCATION: (11)..(11)
262 <223> OTHER INFORMATION: PHOSPHORYLATION
265 <400> SEQUENCE: 12
267 Gly Ser Pro Ser Val Arg Cys Ser Ser Met Ser
268 1          5          10
271 <210> SEQ ID NO: 13
272 <211> LENGTH: 11
273 <212> TYPE: PRT
274 <213> ORGANISM: Artificial Sequence
276 <220> FEATURE:
277 <223> OTHER INFORMATION: Artificial sequence is synthesized
279 <220> FEATURE:
280 <221> NAME/KEY: MOD_RES
281 <222> LOCATION: (6)..(6)
282 <223> OTHER INFORMATION: PHOSPHORYLATION
285 <400> SEQUENCE: 13
287 Arg Ser Arg His Ser Ser Tyr Pro Ala Gly Thr
288 1          5          10
291 <210> SEQ ID NO: 14
292 <211> LENGTH: 5
293 <212> TYPE: PRT
294 <213> ORGANISM: Artificial Sequence

```

## RAW SEQUENCE LISTING

DATE: 04/01/2003

PATENT APPLICATION: US/09/596,444B

TIME: 12:47:40

Input Set : E:\Sequence Listing.txt

Output Set: N:\CRF4\04012003\I596444B.raw

296 <220> FEATURE:  
297 <223> OTHER INFORMATION: Artificial sequence is synthesized  
299 <220> FEATURE:  
300 <221> NAME/KEY: MOD\_RES  
301 <222> LOCATION: (2)..(2)  
302 <223> OTHER INFORMATION: PHOSPHORYLATION  
305 <400> SEQUENCE: 14  
307 Leu Thr Pro Leu Lys  
308 1 5  
311 <210> SEQ ID NO: 15  
312 <211> LENGTH: 5  
313 <212> TYPE: PRT  
314 <213> ORGANISM: Artificial Sequence  
316 <220> FEATURE:  
317 <223> OTHER INFORMATION: Artificial sequence is synthesized  
319 <220> FEATURE:  
320 <221> NAME/KEY: MOD\_RES  
321 <222> LOCATION: (2)..(2)  
322 <223> OTHER INFORMATION: PHOSPHORYLATION  
325 <400> SEQUENCE: 15  
327 Phe Thr Pro Leu Gln  
328 1 5  
331 <210> SEQ ID NO: 16  
332 <211> LENGTH: 8  
333 <212> TYPE: PRT  
334 <213> ORGANISM: Artificial Sequence  
336 <220> FEATURE:  
337 <223> OTHER INFORMATION: Artificial sequence is synthesized  
339 <220> FEATURE:  
340 <221> NAME/KEY: MOD\_RES  
341 <222> LOCATION: (4)..(4)  
342 <223> OTHER INFORMATION: PHOSPHORYLATION  
345 <400> SEQUENCE: 16  
347 Arg Lys Arg Thr Leu Arg Arg Leu  
348 1 5  
351 <210> SEQ ID NO: 17  
352 <211> LENGTH: 7  
353 <212> TYPE: PRT  
354 <213> ORGANISM: Artificial Sequence  
356 <220> FEATURE:  
357 <223> OTHER INFORMATION: Artificial sequence is synthesized  
359 <220> FEATURE:  
360 <221> NAME/KEY: MOD\_RES  
361 <222> LOCATION: (5)..(5)  
362 <223> OTHER INFORMATION: PHOSPHORYLATION  
365 <400> SEQUENCE: 17  
367 Leu Arg Arg Ala Ser Leu Gly  
368 1 5  
371 <210> SEQ ID NO: 18

**VERIFICATION SUMMARY**

DATE: 04/01/2003

PATENT APPLICATION: US/09/596,444B

TIME: 12:47:41

Input Set : E:\Sequence Listing.txt

Output Set: N:\CRF4\04012003\I596444B.raw